Chimie Organique

Série n°3

Exercice 1:

Dessinez la structure des isomères cis et trans pour :

1) 1,2-dichlorocyclopentane.
2) 1-bromo- 3-chlorocyclobutane.

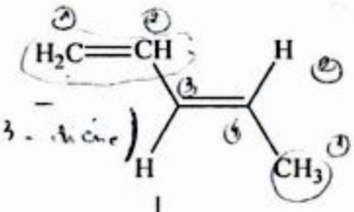
Exercice 2:

Lesquels des composés suivants possèdent des isomères géométriques?

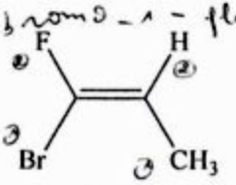
1) 1-pentène.
2) 3-chloropropène.
3) 1,3,5- hexatriène.

Exercice 3:

Nommer les composés suivants selon la convention E ou Z:

1) 

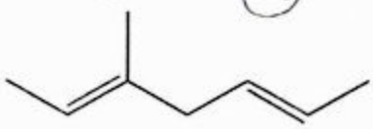
(3E) penta-1,3-diène

2) 

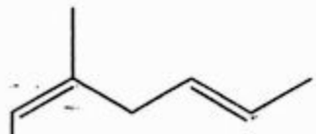
(1Z) 1-bromo-1-fluoro propène

3)

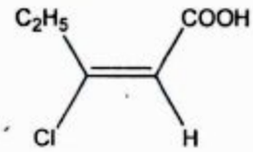
(2E,4E) hexa-2,4-diène

4) 

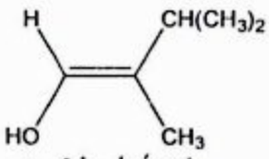
(2E,5E) 3-méthylhexa-2,5-diène

5) 

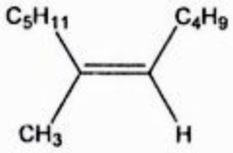
(2Z,5E)-3-méthylhepta-2,5-diène

6) 

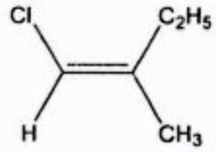
Acide(2E)-3-chloropent-2-énoïque

7) 

(1E)-2,3-diméthylbuténol
2,3-diméthylbut-1-ène-1-ol

8) 

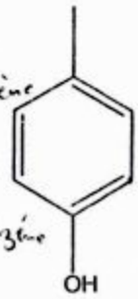
(5Z)-6-méthylindéc-5-ène

9) 

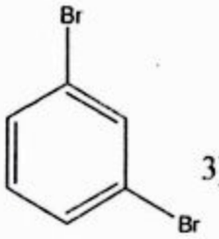
(1Z)-1-chloro-2-méthylbut-1-ène

Exercice 4:

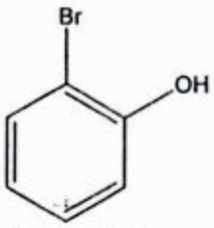
Nommer les composés suivants:

1) 

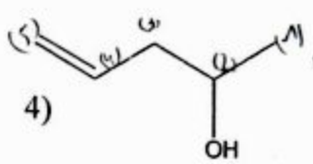
ossia:
éthylphénol
2: hydoxytoluène
: hy
choxyméthylbenzène

2) 

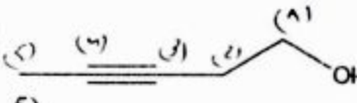
m-dibromobenzène

3) 

P1: obromophénol
P2 obromohydroxybenzène

4) 

pent-4-ène-2-ol

5) 

pent-3-yne-1-ol

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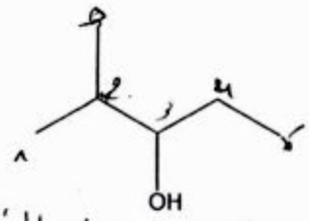
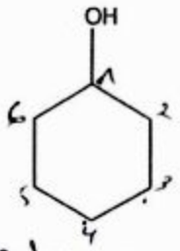
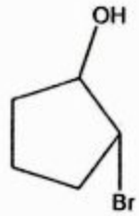
6) 

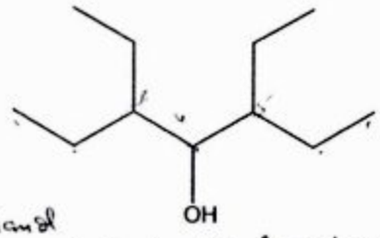
2 méthyl pent-3-ol

7) 

cyclohexanol

8) 

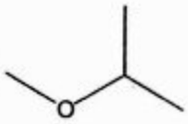
2-Bromo cyclopentanol

9) 

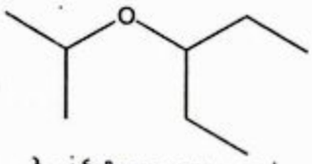
3,5-diéthylheptan-4-ol

10)

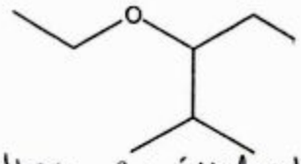
Méthoxypropane

11) 

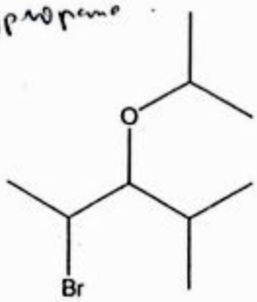
2-méthoxypropane

12) 

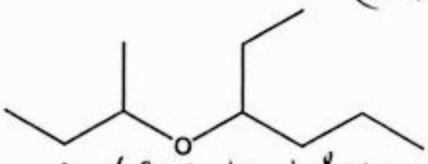
3-isopropoxypentane (isopropyl)

13) 

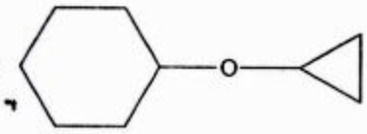
éthoxy-2-méthylpentane

14) 

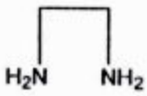
3-isopropoxy-2-Bromo-4-méthylpentane

15) 

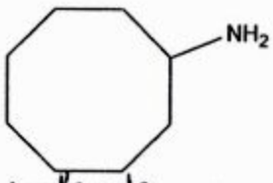
3-(2-butoxy)-hexane

16) 

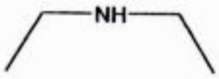
cyclopropoxycyclohexane

17) 

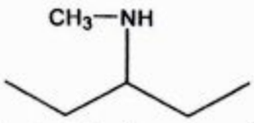
Éthane-1,2-diimine

18) 

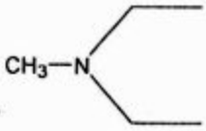
cyclo octanamine

19) 

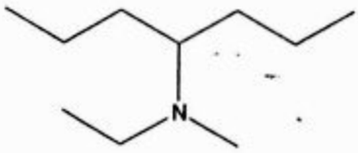
N-éthyléthanamine

20) 

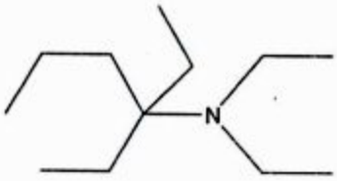
N-méthylpentan-3-amine

21) 

1-éthyl-N-méthyléthanamine

22) 

N-éthyl-N-méthylheptan-4-amine

23) 

N,N,3-triméthylhexan-3-amine

Exercice 5:

Donner la formule semi-développée des composés suivants :

a) 2-méthylbutanal.
b) 3-méthylpentanal.
c) 2-méthyl-3-aminohexanal.
d) 1-méthoxy-4,5-diméthylhexan-3-one.
e) 2-hydroxy-3-méthylheptanal.
f) 6-méthylheptan-3-one.
g) Hex-5-ène-3-one.
h) Acide 3-oxobutanoïque.
i) Aldéhyde benzoïque.

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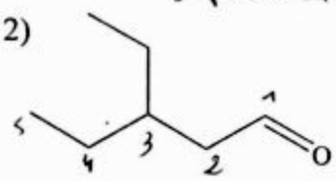
Exercice 6:

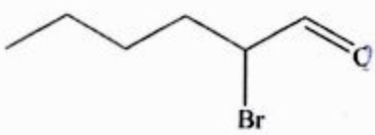
Nommer les composés suivants:

1) octanal.

2) 3-éthylpentanal



3) 2-Bromohetanal

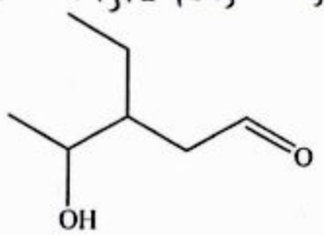


Pentandial.

4)

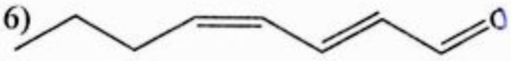
3-éthyl-4-hydroxypentanal

5)



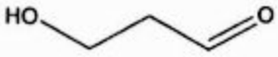
(2E,4Z)-octa-2,4-diénal

6)



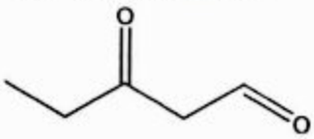
3-hydroxypropanal.

7)



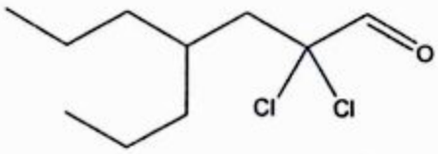
3-oxopentanal.

8)



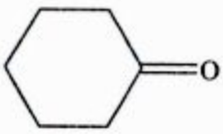
2,2-dichloro-4-propylheptan

9)



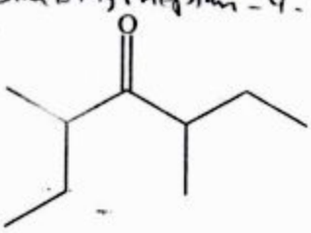
cyclohetanone

10)



3,5-diméthylheptan-4-one

11)

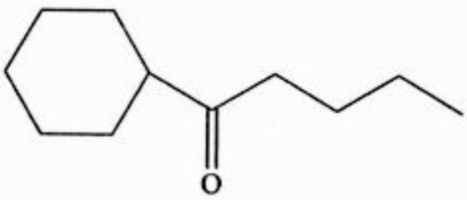


Bicyclo[2,2,1]heptanon

12)

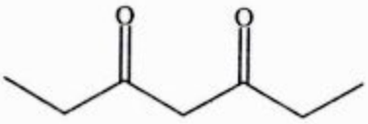
1-cyclohexylpentanone

13)



Heptane-3,5-dione

14)



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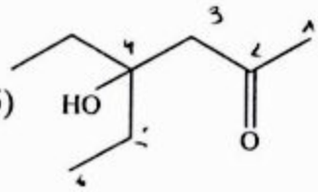
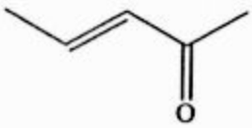


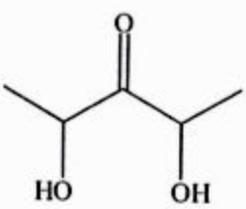
4-éthyl-4-hydroxyhetan-2-on

16)



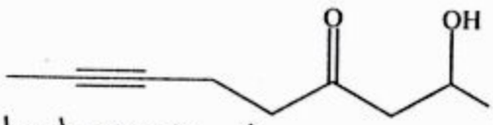
3E)pent-3-ène-2-one

17)



2,4-dihydroxypentan-3-one

18)



2-hydroxynon-7-yn-4-one

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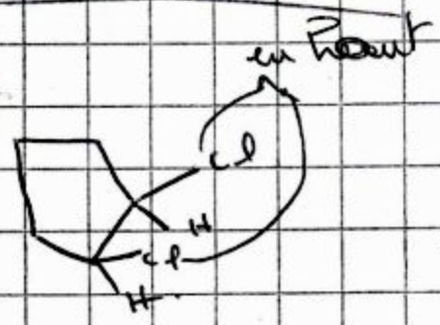
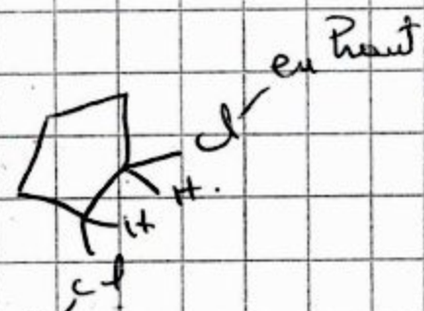
Serie 3

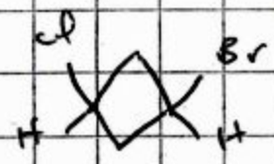


cis

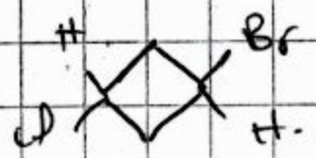


trans

a)



cis



trans.

Exo 2

1) $CH_2 = CH - CH_2 - CH_2 - CH_3$.

ne possède pas

2). $CH_2 = CH - CH_2 - Cl$

ne possède pas

3) $CH_2 = CH - CH = CH - CH = CH_2$.

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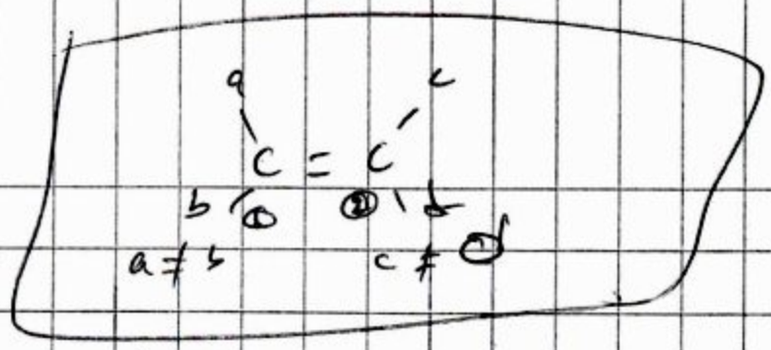
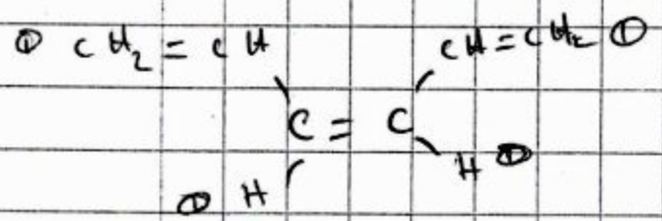
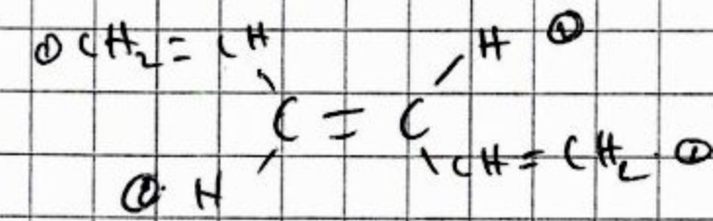




cis

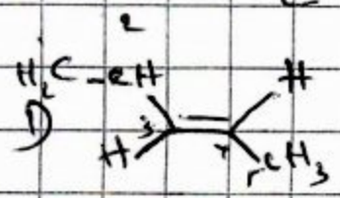


trans

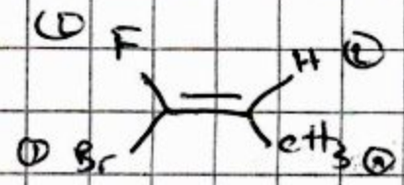
Ex 3

E ≡ trans ⇒ de coté opposé

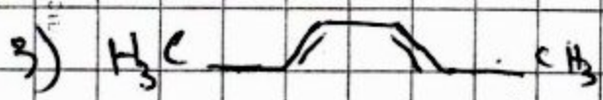
Z ≡ cis ⇒ m̂ coté



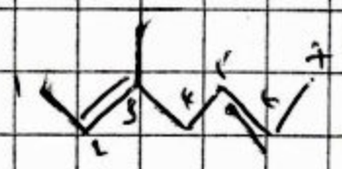
(3E)-penta-1,3-diène

2) 

(1Z)-1-bromo-1-fluoro prop-1-ène.

3) 

(2E,4E)-hexa-2,4-diène

4) 

(2Z,5E)-3-méthyl hepta-2,5-diène

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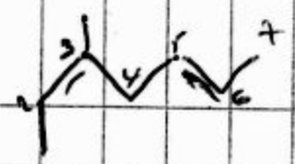
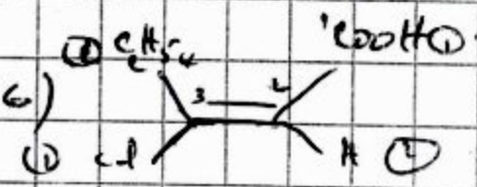
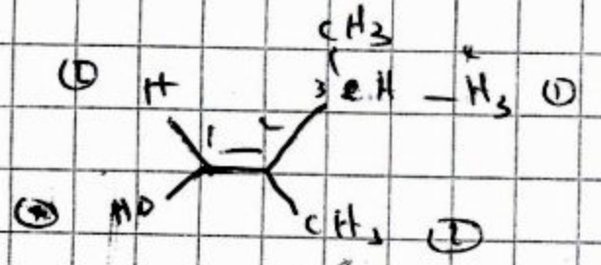
5) 

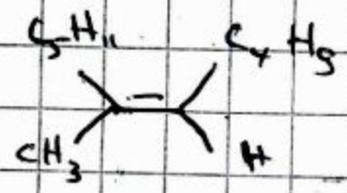
(2 E, 5 E) 3 - méthyl hepta - 2, 5 - diène

6) 

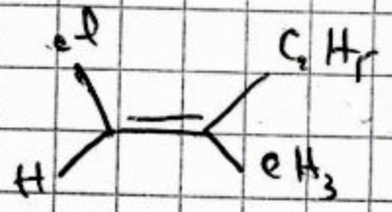
Acide (2 E) - 3 - chloro pent - 2 - en oïque

7) 

7) (1 E) - 2, 3 - diméthyl but - 1 - ène - ol

8) 

(5 Z) - 6 - méthyl undéc - 5 - ène.

9) 

(1 Z) - 1 - cloro - 2 - méthyl but - 1 - ène.

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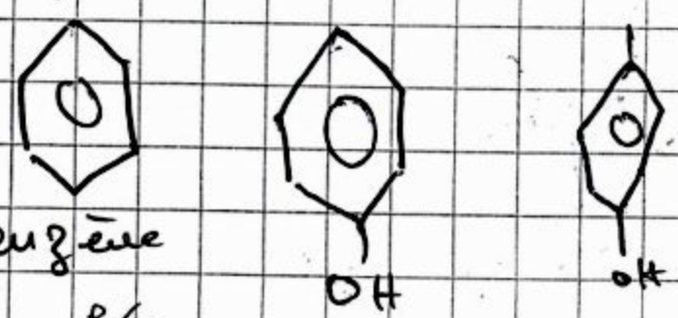
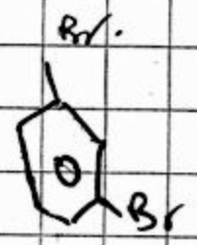
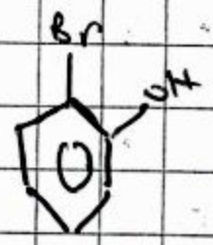
Exo 4

1) 

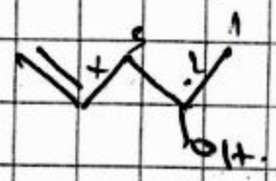
p-méthylphénol
p-hydroxytoluène
p-hydroxymethylbenzène

2) 

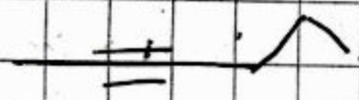
m-dibromobenzène

3) 

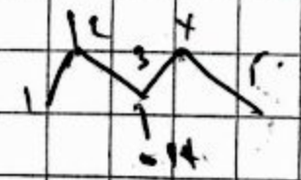
O-bromo hydroxy benzène
o-bromophénol

4) 

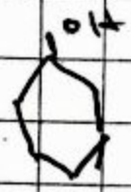
pent-4-ên-2-ol.

5) 

pent-3-yn-1-ol.

6) 

2-methyl pentan-3-ol.

7) 

cyclohexanol

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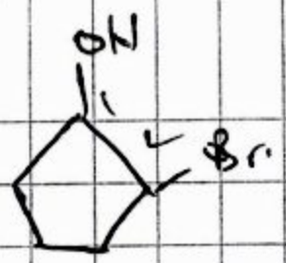
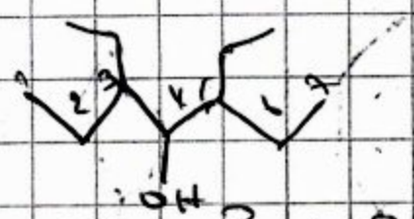
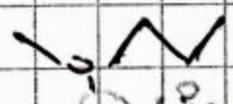
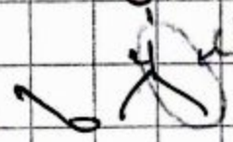
8) 

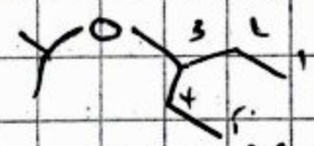
2-Bromo cyclopentan-1-ol



3,5-diethyl heptan-4-ol.

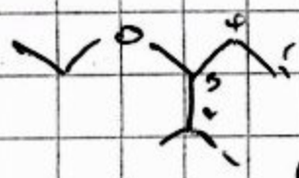
10)  méthoxy propane.

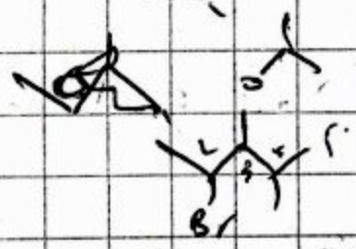
11)  2-methoxy propane.

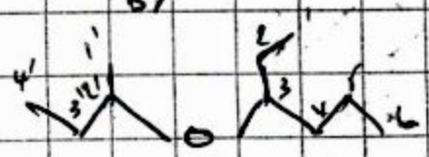
12) 

isopropyl

3-isopropoxypentane.

13)  3-ethoxy-2-methyl pentane.

14)  3-isopropoxy-2-bromo 4-méthyl pentane.

15) 

3-(2'-butoxy) hexane.

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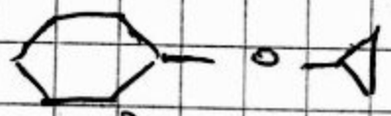
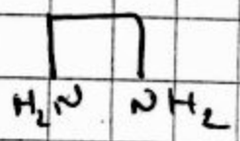
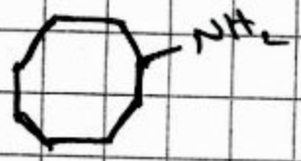
16) 

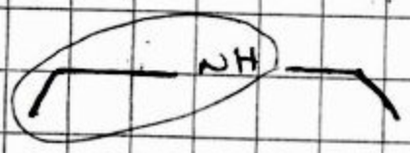
cyclopropoxy cyclo hexane.

17) 

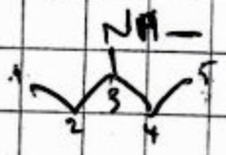
Ethane-1,2-diamine.

18) 

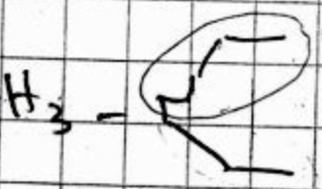
cyclooctanamine.

19) 

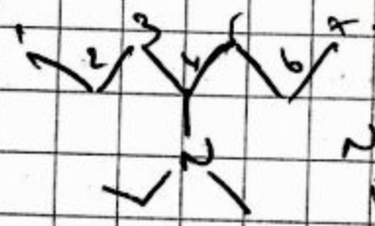
N-Ethyl Ethanamine.

20) 

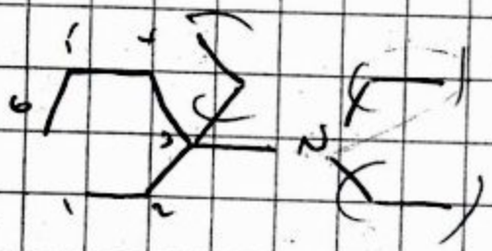
N-methyl pentane-3-amine

21) 

N-ethyl-N-methyl ethanamine.

22) 

N-ethyl-N-methyl heptan-4-amine.

23) 

N,N,3-triethyl hexane-3-amine.

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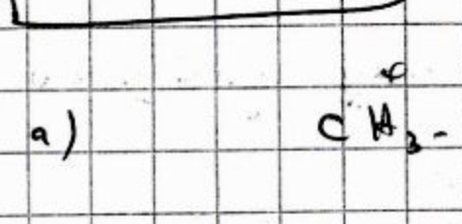
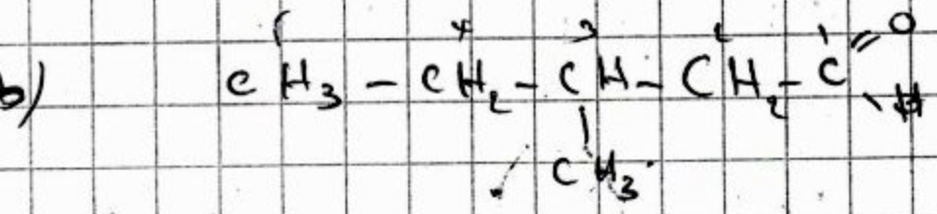
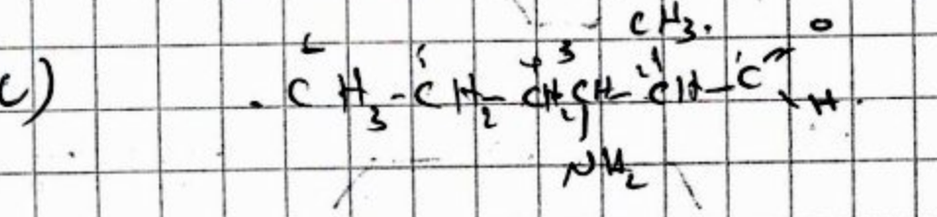
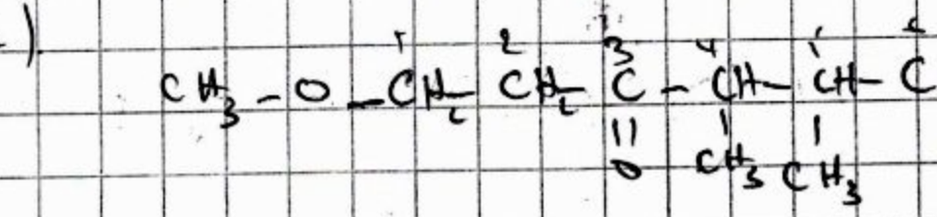
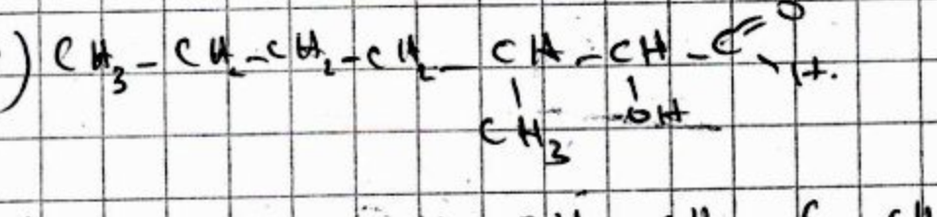
Exercice 1

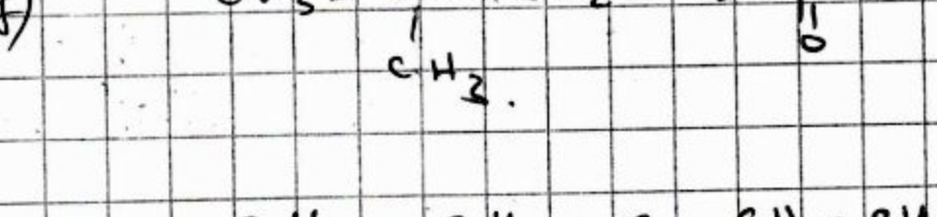
a) 

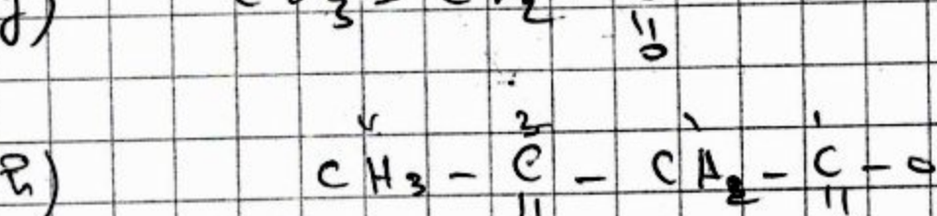
b) 

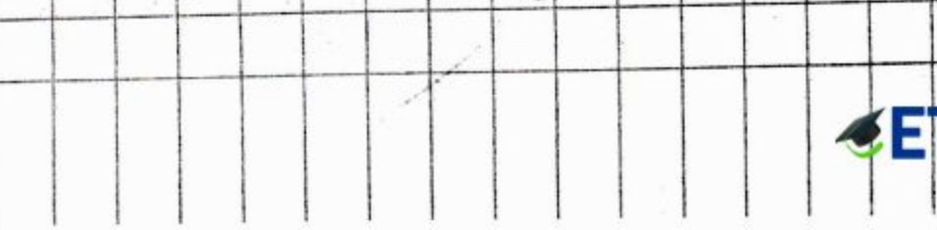
c) 

d) 

e) 

f) 

g) 

h) 

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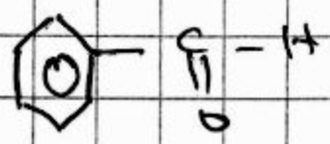
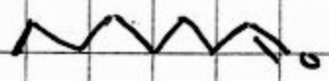
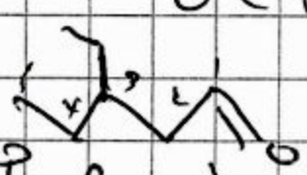
i) 

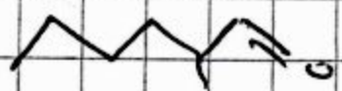
Exo 6

1)  $\equiv CH_3-(CH_2)_6-\underset{\underset{O}{\|}}{C}-H$.

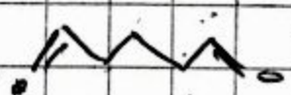
octanal.

2) ~~3-Ethyl~~ 

3-ethylpentanal.

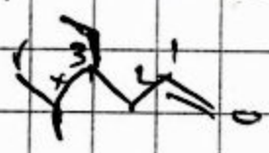
3) 

Br. 2-Bromohexanal.

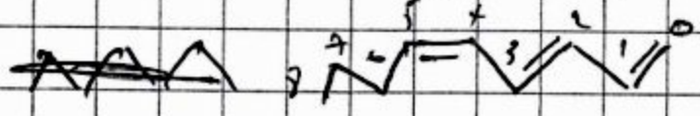
4) 

pentanedial.

c'est pas la peine de numéroter

5) 

3-ethyl-4-hydroxypentanal.

6) 

octa-2,4-diénal.

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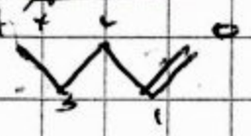
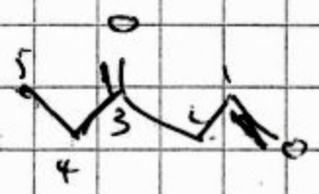
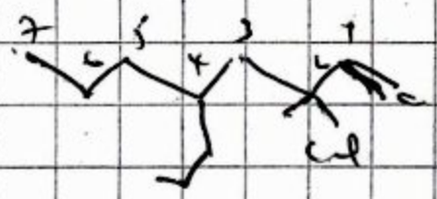
Exo 6

7) 

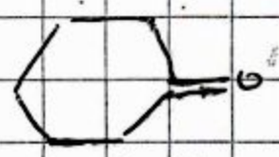
3-hydroxypropanal

8) 

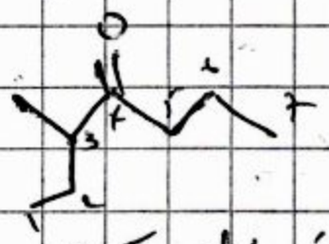
3-oxo-pentanal

9) 

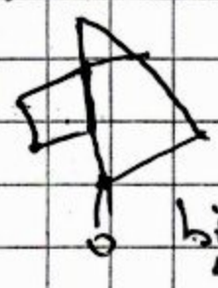
2-2-dichloro-4-propyl heptanal

10) 

cyclohexane

11) 

3,5-diméthyl heptan-4-one

12) 

bicyclo[2,2,1] heptanone

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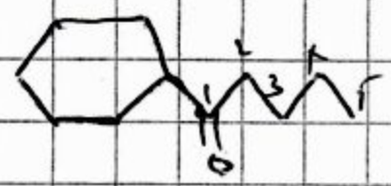
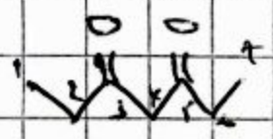
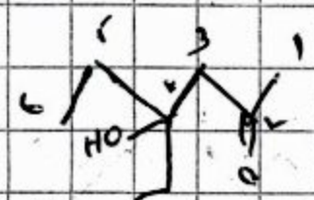
13) 

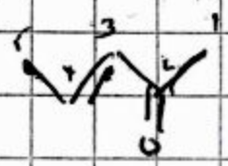
1 - cyclohexyl pentanone

14) 

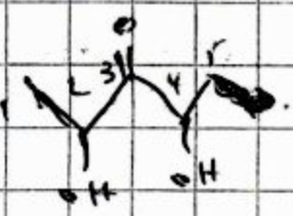
Heptan-3,5-dione

15) 

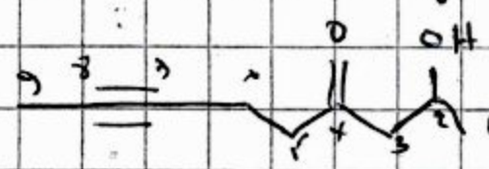
4-éthyl-4-hydroxy hexan-2-one.

16) 

(3E)-pent-3-en-2-one.

17) 

2,4-dihydroxypentan-3-one.

18) 

2-hydroxy non-7-yn-4-one.

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